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(54) Title: **ARRAYS OF PROTEINS AND METHODS OF USE THEREOF**

(57) Abstract: Protein arrays for the parallel, *in vitro* screening of biomolecular activity are provided. Methods of using the protein arrays are also disclosed. On the arrays, a plurality of different proteins, such as different members of a single protein family, are immobilized on one or more organic thin films on the substrate surface. The protein arrays are particularly useful in drug development, proteomics, and clinical diagnostics.

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